



SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

BRILLO JUMBO

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: BRILLO JUMBO
Brillo® used under authority from SC Johnson & Son Inc. Racine, Wisconsin, USA.

MSDS Code: MS1000457

Supplier: Hugh Crane Cleaning Equipment Ltd
South Walsham Road, Acle
Norwich, NR13 3ES

Telephone: Tel 01493 750072 Fax 01493 751854

Emergency Telephone: For medical or environmental emergency only: call 0800 052 0185

Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

Identified Uses: For professional use only
AISE-P301 – General Purpose Cleaner – Manual process.
AISE-P303 – Kitchen Cleaner – Manual process.

Uses advised against: Uses other than those identified are not recommended

2. HAZARDS IDENTIFICATION

Classification Of The Substance Or Mixture

Label elements: Contains EUH208: 1,2-benzisothiazol-3(2H)-one (Benzisothiazolinone)

Hazard statements: EUH208 May produce an allergic reaction.
EUH210 Safety data sheet available upon request.

Other hazards: No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Ingredient(s)	EC No.	CAS No.	REACH No.	Classification	Notes	Weight %
sodium xylene sulphonate	215-090-9	1300-72-7	01-2119513350-56	Eye Irrit. 2 (H319)		3-10
sodium nitrite	231-555-9	7632-00-0	No data available	Ox. Sol. 2 (H272) Acute Tox. 3 (H301) Aquatic Acute 1 (H400)		1-3
1,2-Benzisothiazol-3(2H)-one	220-120-9	2634-33-5	No data available	Acute Tox 4 – H302 Skin Irrit 2 – H315 Eye Dam 1 – H318 Skin Sens 1 – H317 Aquatic Acute 1 – H400		<0.01

* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

4. FIRST AID MEASURES

Description Of First Aid Measures

Inhalation: Get medical attention or advice if you feel unwell.

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

Eye contact: Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical attention.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Get medical attention or advice if you feel unwell.

Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.



Most Important Symptoms And Effects, Both Acute And Delayed

Inhalation: No known effects or symptoms in normal use.
Skin contact: No known effects or symptoms in normal use.
Eye contact: No known effects or symptoms in normal use.
Ingestion: No known effects or symptoms in normal use.

Indication Of Any Immediate Medical Attention And Special Treatment Needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media: Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

Special hazards arising from the substance or mixture: No special hazards known.

Advice for firefighters: As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective

Eqpt & Emergency Procedures: No special measures required.

Environmental precautions: Do not allow to enter drainage system, surface or ground water.

Methods and material for containment and cleaning up: Collect mechanically.

Reference to other sections: For personal protective equipment see Section 8. For disposal considerations see Section 13

7. HANDLING & STORAGE

Precautions For Safe Handling

Measures to prevent fire and explosions: No special precautions required.

Measures required to protect the environment: For environmental exposure controls see subsection 8.2.

Advice on general occupational hygiene: Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities: Store in accordance with local and national regulations. Keep only in original container. Store in a closed container. For conditions to avoid see and incompatible materials see Section 10.

Specific end use(s): No specific advice for end use available.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Control Parameters

Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values

Human exposure

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term – Local effects	Short term – Systemic effects	Long term – Local effects	Long term – Systemic effects
sodium xylene sulphonate	-	-	-	3.8
sodium nitrite	No data available	No data available	No data available	No data available
1,2-Benzisothiazol-3(2H)-one	-	-	-	-

DNEL dermal exposure – Worker

Ingredient(s)	Short term – Local effects	Short term – Systemic effects (mg/bw)	Long term – Local effects	Long term – Systemic effects (mg/bw)
sodium xylene sulphonate	-	-	-	7.6
sodium nitrite	No data available	No data available	No data available	No data available
1,2-Benzisothiazol-3(2H)-one	-	-	-	-



DNEL dermal exposure – Consumer

Ingredient(s)	Short term – Local effects	Short term – Systemic effects (mg/bw)	Long term – Local effects	Long term – Systemic effects (mg/bw)
sodium xylene sulphonate	-	-	-	3.8
sodium nitrite	No data available	No data available	No data available	No data available
1,2-Benzisothiazol-3(2H)-one	-	-	-	-

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term – Local effects	Short term – Systemic effects	Long term – Local effects	Long term – Systemic effects
sodium xylene sulphonate	-	-	-	53.6
sodium nitrite	No data available	No data available	No data available	No data available
1,2-Benzisothiazol-3(2H)-one	-	-	-	-

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term – Local effects	Short term – Systemic effects	Long term – Local effects	Long term – Systemic effects
sodium xylene sulphonate	-	-	-	13.2
sodium nitrite	No data available	No data available	No data available	No data available
1,2-Benzisothiazol-3(2H)-one	-	-	-	-

Environmental exposure

Environmental exposure – PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
sodium xylene sulphonate	0.23	-	2.3	100
sodium nitrite	No data available	No data available	No data available	No data available
1,2-Benzisothiazol-3(2H)-one	-	-	-	-

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
sodium xylene sulphonate	-	-	-	-
sodium nitrite	No data available	No data available	No data available	No data available
1,2-Benzisothiazol-3(2H)-one	-	-	-	-

Exposure controls

The following information applies for the uses indicated in subsection 1.2.

If available, please refer to the product information sheet for application and handling instructions.

Normal use conditions are assumed for this section.

Recommended safety measures for handling the **undiluted** product:

Appropriate engineering controls: No special requirements under normal use conditions.

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal Protective Equipment

Eye / face protection: No special requirements under normal use conditions.

Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

Body protection: No special requirements under normal use conditions

Respiratory protection: No special requirements under normal use conditions.

Environmental exposure controls: No special requirements under normal use conditions

9. PHYSICAL & CHEMICAL PROPERTIES

Information On Basic Physical And Chemical Properties

Information in this section refers to the product unless it is specifically stated that substance data is listed.

Physical State: Solid

Appearance: Liquid on inert carrier material

Colour: Pink

Odour: Product specific.

Odour Threshold: Not applicable



pH: Approx 10 (neat)
Melting/Freezing Point (°C): Not determined. Not relevant to classification of this product.
Initial Boiling point/range (°C): Not determined

Substance Data, Boiling Point

Ingredient(s)	Value (°C)	Method	Atmospheric Pressure (hPa)
sodium xylene sulphonate	>100	Method not given	
sodium nitrite	No data available		
1,2-Benzisothiazol-3(2H)-one	No data available		

Flash Point (°C): Not applicable.

Sustained Combustion: Not applicable
(UN Manual of Tests & Criteria, Section 32, L2)

Evaporation Rate: Not determined.

Flammability (solid, gas): Not determined.

Upper/lower flammability Limit: Not determined.

Substance Data, Flammability or Explosive Limits, if Available:

Vapour Pressure: Not determined.

Substance Data, Vapour Pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium xylene sulphonate	No data available		
sodium nitrite	No data available		
1,2-Benzisothiazol-3(2H)-one	No data available		

Vapour Density: Not determined.

Relative Density: Not determined.

Solubility in / Miscibility with Water: Soluble.

Substance Data, Solubility in Water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sodium xylene sulphonate	664	Method not given	
sodium nitrite	No data available		
1,2-Benzisothiazol-3(2H)-one	No data available		

Substance Data, Partition Coefficient N-Octanol/Water (log/Kow): See section 12.

Autoignition Temperature: Not determined.

Decomposition Temperature: Not applicable.

Viscosity: Not determined.

Explosive Properties: Not explosive.

Oxidising properties: Not oxidising.

Other information

Surface Tension (N/m): Not determined.

Corrosion To Metals: Not determined. Not applicable to solids or gases..

Substance Data, Dissociation Constant, if available.

10. STABILITY & REACTIVITY

Reactivity: No reactivity hazards known under normal storage and use conditions.

Chemical stability: Stable under normal storage and use conditions.

Possibility of hazardous reactions: No hazardous reactions known under normal storage and use conditions.

Conditions to avoid: None known under normal storage and use conditions.

Incompatible materials: None known under normal use conditions

Hazardous decomposition products: None known under normal storage and use conditions.

11. TOXICOLOGICAL INFORMATION

Information On Toxicological Effects

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

Substance data, where relevant and available, are listed below.



Acute toxicity –

Acute oral toxicity

Ingredients	End point	Value (mg/kg)	Species	Method	Exposure Time (h)
sodium xylene sulphonate	LD ₅₀	>7200	Rat	Method not given	
sodium nitrite		?			
1,2-Benzisothiazol-3(2H)-one	LD ₅₀	>2000	Rat		

Acute dermal toxicity

Ingredients	End point	Value (mg/kg)	Species	Method	Exposure Time (h)
sodium xylene sulphonate	LD ₅₀	>2000	Rabbit	Method not given	
sodium nitrite		No data available			
1,2-Benzisothiazol-3(2H)-one	LD ₅₀	>2000	Rat	OECD 402 (EU B.3)	

Acute inhalative toxicity

Ingredients	End point	Value (mg/kg)	Species	Method	Exposure Time (h)
sodium xylene sulphonate	LC ₅₀	>6.41 (mist)	Rat	Method not given	4
sodium nitrite		No data available			
1,2-Benzisothiazol-3(2H)-one		No data available			

Irritation and corrosivity –

Skin irritation and corrosivity

Ingredients	Result	Species	Method	Exposure Time (h)
sodium xylene sulphonate	Mild Irritant	Rabbit	OECD 404 (EU B.4)	
sodium nitrite	No data available			
1,2-Benzisothiazol-3(2H)-one	Corrosive			

Eye irritation and corrosivity

Ingredients	Result	Species	Method	Exposure Time (h)
sodium xylene sulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
sodium nitrite	No data available			
1,2-Benzisothiazol-3(2H)-one	No data available			

Respiratory tract irritation and corrosivity

Ingredients	Result	Species	Method	Exposure Time (h)
sodium xylene sulphonate	No data available			
sodium nitrite	No data available			
1,2-Benzisothiazol-3(2H)-one	No data available			

Sensitisation –

Sensitisation by skin contact

Ingredients	Result	Species	Method	Exposure Time (h)
sodium xylene sulphonate	Not sensitising	Guinea Pig	OECD 406 (EU B.6) / GPMT	
sodium nitrite	No data available			
1,2-Benzisothiazol-3(2H)-one	Sensitising	Guinea Pig		

Sensitisation by inhalation

Ingredients	Result	Species	Method	Exposure Time (h)
sodium xylene sulphonate	No data available			
sodium nitrite	No data available			
1,2-Benzisothiazol-3(2H)-one	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredients	Result (in vitro)	Method (in vitro)	Result (in vivo)	Method (in vivo)
sodium xylene sulphonate	No evidence for mutagenicity, negative test results	OECD 473	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
sodium nitrite	No data available		No data available	
1,2-Benzisothiazol-3(2H)-one	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	

Carcinogenicity

Ingredient(s)	Effect
sodium xylene sulphonate	No evidence for carcinogenicity; negative test results
sodium nitrite	No data available
1,2-Benzisothiazol-3(2H)-one	No data available



Toxicity for reproduction

Ingredient(s)	End point	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure Time	Remarks & other effects reported
sodium xylene sulphonate	NOAEL	Teratogenic Effects	>936	Rat	Non Guideline Test		
sodium nitrite			No data available				
1,2-Benzisothiazol-3(2H)-one			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	End point	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects & organs affected
sodium xylene sulphonate	NOAEL	763-3534	Rat	OECD 408 (EU B.26)	90	
sodium nitrite		No data available				
1,2-Benzisothiazol-3(2H)-one		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	End point	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects & organs affected
sodium xylene sulphonate	NOAEL	>440		OECD411 (EU B.28)	90	
sodium nitrite		No data available				
1,2-Benzisothiazol-3(2H)-one		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects & organs affected
sodium xylene sulphonate		No data available				
sodium nitrite		No data available				
1,2-Benzisothiazol-3(2H)-one		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	End point	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects & organs affected	Remark
sodium xylene sulphonate	Oral		No data available	Rat	OECD 453 (EU B.33)	24 months	No adverse effects observed.	
sodium nitrite			No data available					
1,2-Benzisothiazol-3(2H)-one			No data available					

STOT – Single Exposure

Ingredient(s)	Affected Organ(s)
sodium xylene sulphonate	No data available
sodium nitrite	No data available
1,2-Benzisothiazol-3(2H)-one	No data available

STOT – Repeated Exposure

Ingredient(s)	Affected Organ(s)
sodium xylene sulphonate	No data available
sodium nitrite	No data available
1,2-Benzisothiazol-3(2H)-one	No data available

Aspiration hazard:

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential Adverse Health Effects And Symptoms:

Effects and symptoms related to the product, if any, are listed in Section 4

12. ECOLOGICAL INFORMATION

Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below

Aquatic short-term toxicity - Aquatic short-term toxicity – fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure Time
sodium xylene sulphonate	LC ₅₀	>1000	Fish	EPA-OPPTS	96 hrs
sodium nitrite		No data available			
1,2-Benzisothiazol-3(2H)-one		No data available			



Aquatic short-term toxicity – crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure Time
sodium xylene sulphonate	EC ₅₀	>1000	Daphnia	EPA-OPPTS	48 hrs
sodium nitrite		No data available			
1,2-Benzisothiazol-3(2H)-one		No data available			

Aquatic short-term toxicity – algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure Time
sodium xylene sulphonate	EC ₅₀	>230	Not specified	US-EPA 1994	96 hrs
sodium nitrite		No data available			
1,2-Benzisothiazol-3(2H)-one		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure Time
sodium xylene sulphonate		No data available			
sodium nitrite		No data available			
1,2-Benzisothiazol-3(2H)-one		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure Time
sodium xylene sulphonate	E _r C ₅₀	>1000	Activated sludge	OECD 209	3 hrs
sodium nitrite		No data available			
1,2-Benzisothiazol-3(2H)-one	EC ₂₀	3.3	Activated Sludge	OECD 209	3 hrs

Aquatic long-term toxicity – Aquatic long-term toxicity – fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium xylene sulphonate		No data available				
sodium nitrite		No data available				
1,2-Benzisothiazol-3(2H)-one		No data available				

Aquatic long-term toxicity – crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium xylene sulphonate		No data available				
sodium nitrite		No data available				
1,2-Benzisothiazol-3(2H)-one		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time	Effects observed
sodium xylene sulphonate		No data available				
sodium nitrite		No data available				
1,2-Benzisothiazol-3(2H)-one		No data available				

Terrestrial Toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time	Effects observed
sodium xylene sulphonate		No data available				

Terrestrial toxicity - plants, if available

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time	Effects observed
sodium xylene sulphonate		No data available				

Terrestrial toxicity - birds, if available

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time	Effects observed
sodium xylene sulphonate		No data available				

Terrestrial toxicity - beneficial insects, if available

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time	Effects observed
sodium xylene sulphonate		No data available				

Terrestrial toxicity - soil bacteria, if available

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time	Effects observed
sodium xylene sulphonate		No data available				



Persistence And Degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation - Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical Method	DT ₅₀	Method	Evaluation
sodium xylene sulphonate			99.8% in 28 days	OECD 301F	Readily biodegradable
sodium nitrite					Not applicable (inorganic substance)
1,2-Benzisothiazol-3(2H)-one				Weight of evidence	Not readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical Method	DT ₅₀	Method	Evaluation
1,2-Benzisothiazol-3(2H)-one	Sewage treatment plant simulation	Primary degradation	>90%	OECD303A	Biodegradable

Bioaccumulative Potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
sodium xylene sulphonate	-3.12	Method not given	No bioaccumulation expected	
sodium nitrite	No data available			
1,2-Benzisothiazol-3(2H)-one	0.7	OECD 107	No bioaccumulation expected	

Bioconcentration Factor (BCF)

Ingredients	Value	Species	Method	Evaluation	Remark
sodium xylene sulphonate	No data available				
sodium nitrite	No data available				
1,2-Benzisothiazol-3(2H)-one	6.95		OECD 305		

Mobility In Soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil / sediment type	Evaluation
sodium xylene sulphonate	No data available				
sodium nitrite	No data available				
1,2-Benzisothiazol-3(2H)-one	No data available				

Results of PBT and vPvB assessment: Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

Other adverse effects: No other adverse effects known.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste from residues/unused Products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging is suitable for energy recovery or recycling in line with local legislation.

European Waste Catalogue:

20-01-30 - Detergents other than those mentioned in 20 01 29.

Empty Packaging

Recommendation:

Dispose of observing national or local regulations.

14. TRANSPORT INFORMATION

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

UN number: Non dangerous goods

UN proper shipping name: Non dangerous goods

Transport hazard class(es): Non dangerous goods

Packing group: Non dangerous goods

Environmentally Hazardous: Non dangerous goods

Special precautions for user: Non dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Non dangerous goods



15. REGULATORY INFORMATION

Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture

- EU regulations:**
- Regulation (EC) No 1272/2008 - CLP
 - Regulation (EC) No. 1907/2006 - REACH
 - Regulation (EC) No. 648/2004 - Detergents regulation

Authorisations or restrictions (Regulation [EC] No 1907/2006, Title VIII, respectively Title VIII): Not applicable

Ingredients According to EC Detergents Regulation 648/2004:

soap >=30%
anionic surfactants < 5%
Laurylamine Dipropylendiamine, Benzisothiazolinone, Methylisothiazolinone

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Chemical safety assessment: A chemical safety assessment has not been carried out on the mixture

16. OTHER INFORMATION

The information in this document is based upon our best present knowledge. However it does not constitute a guarantee for any specific product features and does not establish a legally binding contract.

MSDS code: MS1000457
MSDS Revision Date: 25th January 2018
Reason for Revision: This data sheet contains changes from the previous version.

Classification procedure: The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Full text of the R, H and EUH phrases mentioned in section 3: H272 - May intensify fire; oxidiser.
H301 - Toxic if swallowed.
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H400 - Very toxic to aquatic life.

Abbreviations and acronyms:

AISE	The international Association for Soaps, Detergents and Maintenance Products.
ATE	Acute Toxicity Estimate.
DNEL	Derived No Effect Limit
EUH	CLP Specific hazard statement
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH number	REACH registration number, without supplier specific part
vPvB	very Persistent and very Bioaccumulative

End of Safety Data Sheet